

# Industrial Enzymes – A Global Market Overview

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## Abstracts

### REPORT SYNOPSIS

Demand for Industrial Enzymes used in Textiles & Leather applications is anticipated to decline drastically in 2020 compared to 2019, estimated at -8.2% Y-o-Y due to the decline in Chinese textile production, with volumes shifting away from China to countries with lower enzyme penetration. Demand for Industrial Enzymes in Biofuel applications is expected to contract sharply with a negative Y-o-Y rate of 7.3% due to sharp decline in gasoline demand and consequently a significant drop in the demand for ethanol.

Industrial enzymes demand in Household Care estimated to grow at faster 9% Y-o-Y in 2020 due to increased enzymatic penetration of detergents, mainly in emerging markets, and an unanticipated surge in sales driven by COVID-19-related effects. The overall Industrial Enzymes market, globally, expected to touch US\$6.1 billion in 2020.

### Research Findings & Coverage

Industrial Enzymes global market is analyzed in this report with respect to key product types and major application segments

The study analyzes the market for industrial enzymes by product type and application segment in each major geographic region/country

Surging Household and Personal Care Products Demand amid Covid-19

Enzyme from Agricultural Waste used in Laundry Detergent

Innovative Approach to Produce Daily-Used Enzymes in Plants

Biological Enzyme, as a New Source of Hydrogen Fuel

Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments

Major companies profiled – 29

The industry guide includes the contact details for 172 companies

## **PRODUCT OUTLINE**

The report analyzes the market for the following key product types of Industrial Enzymes:

Carbohydrases

Proteases

Lipases

Phytases

Polymerases & Nucleases

Others

The market for application segments of industrial enzymes analyzed in this study includes the following:

Food & Beverages

Biofuels

Household Care

Animal Feed

Personal Care & Cosmetics

Nutraceuticals

Textiles & Leather

Paper & Pulp

Waste Treatment

### Analysis Period, Units and Growth Rates

The report reviews, analyzes and projects the global industrial enzymes market for the period 2017-2026 in terms of market value in US\$ and the compound annual growth rates (CAGRs) projected from 2019 through 2024 with a special focus on y-o-y growth for 2019-2020

### Geographic Coverage

North America (The United States, Canada and Mexico)

Europe (Germany, France, The United Kingdom, Italy, Spain and Rest of Europe)

Asia-Pacific (Japan, China, India, South Korea and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Rest of World

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Advanced Enzyme Technologies Limited (India)  
Amano Enzyme Inc. (Japan)  
BASF Corporation (United States)  
Chr. Hansen Holding A/S (Denmark)  
Dupont De Nemours Inc. (United States)  
Novozymes A/S (Denmark)  
Royal DSM N.V. (The Netherlands)

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Codexis, Inc and Alphazyme LLC Collaborate on Co-Marketing & Enzyme Supply Treaty  
DuPont Selects Essential Ingredients, Inc as Exclusive Distributor  
DuPont Launches Axta PHY GOLD Enzymes  
Novozymes A/S Unveils New Enzymes  
Biocatalysts Ltd Unveils Lipomod 767P Enzyme  
DuPont Launches AMYLEX 6T Enzyme  
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FeedKind Protein Production Facility in Hong Kong  
DuPont Develops POWERBake 6000 and 7000 Enzyme Series  
ADISSEO Establish Research & Development Centre in Singapore

BRAIN Group Establishes New Enzymes Production Centers in the UK and Germany  
Codexis in Partnership with Merck KGaA Publishes Enzyme Development  
GPI and Novozymes A/S Partner on Protein Ingredients Portfolio  
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Novozymes A/S Develops Novozymes Fiberlife Enzyme solution  
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Chr. Hansen Unveils Sweet Y-1 Natural Sweetener  
Codexis Enters an Agreement with Novartis AG to Develop Performance Enzymes  
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Codexis Enters into Supply Agreement with KYORIN  
AB Enzymes GmbH and Bode Collaborate on Central Warehousing and Distribution Service  
AB Enzymes GmbH Unveils BIOTOUCH FLX1 Cellulase  
Chr. Hansen Acquires Hundsbichler  
Novozymes A/S and Royal DSM Develop New Feed Additive Balancius™  
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Codexis and Porton Pharma Solutions Entered into a Strategic Collaboration Agreement  
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DuPont to Launch GENENCARE OSMS Pro at in-cosmetics Global  
Dyadic International Announces R&D Collaboration with Mitsubishi Tanabe Pharma Corp  
DSM Showcases Its Dairy Products at CFIA Rennes 2018  
Novozymes Moves into Yeast Production for Ethanol Producers

AB Enzymes Opens New Center in North America

Dyadic International to Collaborate with Israel Institute for Biological Research (IIBR) To Combat Emerging Diseases & Threats

DuPont Industrial Biosciences to Enter into Materials Collaboration with Wools of New Zealand

Novozymes to Enter into a Collaboration Agreement with Grundfos to Solve Global Water Challenges

Biocatalysts Ltd and European Bioinformatics Institute (EMBL-EBI) Launches MetXtra, Software Platform for Data Analysis

Chr. Hansen Enters Into Distribution Partnership Agreement with Rheolution Inc.

Buckman to Enter Into a Strategic Alliance with Engro

DuPont Launches Solution SYNERXIA THRIVE Fermentation

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Buckman Laboratories International, Inc. (United States)

Cargill, Incorporated (United States)

Codexis, Inc. (United States)

Creative Enzymes (United States)

DowDuPont Inc. (United States)

Dyadic International, Inc. (United States)



ENMEX S.A. De C.V. (Mexico)

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Adisseo France SAS (France)  
BASF SE (GERMANY)  
Biocatalysts LTD. (United Kingdom)  
Chr. Hansen Holding A/S (Denmark)  
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Aum Enzymes (India)  
Maps Enzymes Ltd (India)  
Nagase & Co., Ltd. (Japan)  
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#### REST OF WORLD

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Figure 1: Year-over-Year (2019-2020) Projection for Industrial Enzymes Demand by Application

Table 1: List of various industrial enzymes and their major industrial applications

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